SFUND RECORDS CTR 0639-00026

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UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION IX

IN THE MATTER OF:

Montrose Chemical Corporation of California,

RESPONDENT.

FIRST AMENDMENT TO ADMINISTRATIVE ORDER ON CONSENT U.S. EPA Docket No. 85-04

Proceeding Under Section 106(a) of the Comprehensive Environ-mental Response, Compensation, and Liability Act of 1980 (42 U.S.C. §9606(a))

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INTRODUCTION

Montrose Chemical Corporation of California ("Montrose") and the Environmental Protection Agency, Region IX ("EPA") previously executed an Administrative Order on Consent, U.S. EPA Docket No. 85-04 (the "Order") concerning the performance of specified remedial investigative work ("RIW") at and in the vicinity of a former Montrose manufacturing facility in

Torrance, California. Since then, Montrose has completed substantial portions of the RIW described in the Order.

Based on the results of those effects, Montrose and EPA agree that certain amendments to the terms of the Order and the scope of RIW as defined in Appendix A thereof would be appropriate. This First Amendment to the order is intended to:

(1) provide, where necessary, time limits for the submission of third and subsequent draft sampling plans and reports; (2) revise the scope of certain RIW tasks; (3) add additional RIW tasks for sampling on-site, in the area in the vicinity of the site and off-site drainage ways; (4) provide Montrose's and EPA's technical representatives greater flexibility in the finalization of sampling plans.

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AMENDMENTS

A. Article IV E of the Order is amended by adding an additional sentence at the end thereof which states as follows:

"If EPA submits an additional set of comments on a revised plan which requires a third or subsequent draft of the plan, Montrose shall submit the third or subsequent draft of the plan within fifteen (15) days of receipt of EPA's additional comments."

B. Article IV K of the Order is amended by modifying the second paragraph thereof, commencing on page 12, line 27 of the Order, to read as follows:

"The parties agree that the Remedial

Investigative Work which is to be implemented using a phased approach is not to be considered 'additional work' as contemplated by this Article, except as expressly provided for elsewhere in this Agreement, Appendix A or any amendments to this Agreement or Appendix A. The necessity of the performance of phased work shall be determined pursuant to the provisions of Appendix A."

- C. Article IV(I)(1) of the Order is amended by deleting "Therese Gioia, (T-4-2)" and substituting in its place "Johanna Miller, (T-4-2)."
- D. Article XXI A of the Order is amended by deleting "Therese Gioia, (T-4-2)" and substituting in its place "Johanna Miller, (T-4-2)".
- E. Article XXI B of the Order is amended by deleting "Samuel Rotrosen, President" and the associated address, and substituting in the place thereof:

Daniel M. Greeno, General Manager

Montrose Chemical Corporation of California

P.O. Box 0898

Nyala Farms Road

Westport, Connecticut 06881-0898

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- F. Article II A of Appendix A of the Order is amended by the addition of a new subparagraph II.A.5 which states as follows:
 - 5) In light of the analytic results obtained from Montrose's performance of the RIW described in subparagraph A.l and A.3 of this Article, Montrose agrees, pursuant to Article IV K of the Consent Order, to conduct the following additional work:
 - Normandie Avenue Ditch Soils: Montrose shall auger approximately ten (10) additional soil borings in the Normandie Avenue drainage area between the site and the Farmer Brothers catch basin and analyze soil samples from these borings for total DDT and total BHC and their isomers in order to define the vertical and horizontal extent of contamination in the soil. Montrose shall auger approximately five (5) additional soil borings in the Los Angeles Department of Water and Power (LADWP) easement and area west of Del Amo Boulevard and analyze soil samples from these borings for total DDT and total BHC and their isomers in order to define the vertical and horizontal extent of contamination in the soil. number of borings specified above is a best estimate of the extent of effort

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envisioned for the task; the actual number of borings and related samples may increase or decrease. Among other things, the number of borings, the specific location of the borings, the specific boring intervals to be sampled, the sampling protocol, including arrangements with EPA to take split/duplicate samples, and accompanying rationale shall be included in the sampling plan. Off-Site Sediments: Montrose shall conduct additional investigations in the surface water drainage ways. investigation shall include but may not be limited to an estimation of sediment volumes in Torrance Lateral and Dominguez Channel, sieve analysis for sediments found in the drainage ways, the taking of sediment samples in approximately ten (10) locations in the Dominguez Channel, including a background sample. If the sediment depth in any location is greater than one foot, sediment samples shall be taken at intervals to determine

the vertical extent of contamination.

of effort envisioned for this task;
the actual number of samples to be taken
may increase or decrease. Among other
things, the specific location of the
samples, the specific sediment intervals
to be sampled, the number of samples,
the sampling protocol, including
arrangements to allow EPA to take
split/duplicate samples, and the
accompanying rationale shall be included
in the sampling plan.

- G. Article II B of Appendix A of the Order is amended as follows:
 - 1. In subparagraph II.B.2, the time for information submission is increased from twenty (20) days to thirty (30) days.
- H. Article III A of Appendix A of the Order is amended by the addition of a new subparagraph III.A.3 which states:

3. Additional Work/Task

Modifications - Phase 2A Investigation: In light of the results of the RIW conducted pursuant to Section III.A.l of Appendix A, Montrose and EPA agree that the additional four (4) shallow on-site Bellflower Aquitard wells specified in III.A.l(a) need not be constructed, and that the Phase 2 RIW specified in III.A.2 (a) through (c) inclusive should be modified to include

certain additional work. In lieu of Article III.A.2 (a) through (c), Montrose agrees, pursuant to Article IV K of the Order, to undertake the following:

Off-Site Wells: Montrose shall install approximately twenty-five (25) off-site groundwater monitoring wells, approximately half of which will be constructed in the Bellflower Aquitard with the remainder in the upper or lower Gage Aquifer and Lynwood Aquifer. The number of wells specified above is a best estimate of the extent of effort envisioned for this task; the actual number of wells may increase or decrease. Among other things, the number, location, well depth, drilling method, construction details, sampling protocol including arrangements to allow EPA to take split/ duplicate samples, and accompanying rationale should be included in the sampling plan. Montrose shall provide lithologic logs of the well borings, develop the wells, measure water levels and construct water level contours, collect and analyze water samples from the wells for Target Chemicals, and determine the aquifer unit charact-

eristics such as transmissivity, permeability, and flow velocity through pump testing.

On-Site Wells: During the Phase 1 RIW groundwater investigation, contaminants that might be associated with the site were detected in the Gage Aquifer. Montrose shall install approximately three (3) additional on-site groundwater monitoring wells, one of which shall be screened in the Lynwood Aquifer to a depth determined through lithologic and geophysical logs. number of wells specified above is a best estimate of the extent of effort envisioned for this task; the actual number of wells may increase or decrease. Among other things, the number, location, drilling method, construction details, sampling protocol including arrangements to allow EPA to take split/duplicate samples, and accompanying rationale shall be presented in the sampling plan. Montrose shall provide lithologic logs of the well borings, develop the wells, measure the water levels and construct water level contours, collect and analyze water samples from the wells for Target

Chemicals, and determine the aquifer unit characteristics such as transmissivity, permeability, and flow velocity through pump testing.

On-Site Soils: Because the results of the Part 2 Phase 1 deep on-site soils work conducted pursuant to paragraph III(A)(1)(c) of the original Appendix A show that reasonable scientific assumptions about the distribution of contaminants in deep on-site soils in the vicinity of the former on-site impoundment cannot be made, Montrose shall auger approximately six (6) additional sixty-foot soil borings, collect soil samples, and analyze them for Target Chemicals. The number of soil borings specified above is a best estimate of the extent of the effort envisioned for this task; the actual number and depth of borings may increase or decrease. Among other things, the number and depth of the borings, location, drilling method, sampling intervals, and sampling protocols including arrangements to allow EPA to take split/duplicate samples, and accompanying rationale shall be included in the sampling plan.

d. Additional Investigations - Phase

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2B: If review of the new data gathered in work described herein indicates that additional information regarding the extent of contamination is necessary to conduct a feasibility study, and if pursuant to Article IV K of the Consent Order, Montrose and EPA agree that additional investigation is appropriate, Montrose shall install groundwater monitoring wells in the aguifer units of concern for which additional information is required. Among other things, the number of wells, location, drilling method, construction details, sampling protocol including arrangements to allow EPA to take split/ duplicate samples, and accompanying rationale shall be included in the sampling plan. Montrose shall provide lithologic logs of the well borings, develop the wells, measure water levels and construct water level contours, collect and analyze water samples from the wells for Target Chemicals, and determine the aquifer unit characteristics such as transmissivity, permeability, and flow velocity through pump testing.

- I. Article III B is amended as follows:
 - 1. Article II.B.l and 2 are amended to state
 as follows:

a. (1) Part 2 Phase 2A On- and Off-Site Groundwater, On-Site Soils and Off-Site Soils and Sediment Plans: Within forty-five (45) calendar days of the effective date of this Amendment 1 to Appendix A, Montrose shall submit to EPA draft sampling/work plans for the Phase 2A groundwater, soils and sediment investigations discussed in paragraph II.A.5, (a) and (b) and III.A.3, (a) through (c), inclusive above.

- (2) Part 2 Phase 2B Groundwater Plans: Within thirty (30) calendar days of receipt of written notification from EPA that such plans are due, Montrose shall submit to EPA draft plans for the Phase 2B groundwater investigation discussed in paragraph III.A.3(d) above.
- 2. Article III.B.4 and 5 are amended by substituting "thirty (30) calendar days" for "twenty (20) calendar days."
- J. Effective Date: The First Amendment to the Consent Order shall be effective upon execution by Montrose and EPA. The effective date of this Consent Order shall be the date on which it is signed by EPA. EPA shall provide Montrose immediate notification of EPA's execution of this First Amendment.

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IT IS SO AGREED AND ORDERED: l By: D. M. Greeno, Vice President, Secretary, Treasurer Montrose Chemical Corporation of California By: Jeff Zelikson, Acting Director Toxic and Waste Management Division U.S. Environmental Protection Agency Region IX